PATENT COOPERATION TREATY

PCT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file	reference					
DPW/Y3220		FOR FURTHER ACTION See Form PCT/IPEA/416				
International application No. International PCT/GB2004/002330 01.06.200		International filing da 01.06.2004		Priority date (day/month/year) 30.05.2003		
International Patent Classification (IPC) or national classification and IPC A61K31/44, A61P25/00						
Applicant BOOTS HEALTHCARE INTERNATIONAL LIMITED et al.						
		the second secon	and according to Alticle	his International Preliminary Examining 36.		
2. This REPORT co	REPORT consists of a total of 7 sheets, including this cover sheet.					
This report is also	his report is also accompanied by ANNEXES, comprising:					
a. \square sent to the	a. Sent to the applicant and to the International Bureau) a total of sheets as follows:					
sneets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
☐ sheet beyor Suppl						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating to the following items:						
☑ Box No. I						
☐ Box No. II Priority						
☑ Box No. III	Non-establishmen	t of opinion with reg	ard to novelty inventive	oton and industrial and the Law		
☑ Box No. III Non-establishment of opinion with regard to novelty, inver☐ Box No. IV Lack of unity of invention			u to novoky, mventive	step and industrial applicability		
_	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
™ BOX NO. VI	Box No. VI Certain documents cited					
	Box No. VII Certain defects in the international application					
☑ Box No. VIII Certain observations on the international application						
ate of submission of the demand			Date of completion of thi	s report		
0.12.2004			19.08.2005			
ame and mailing address of the international reliminary examining authority:			Authorized Officer			
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465			Heller, D Telephone No. +49 89 23	SOO 9746		
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_	B	ox No. I	Basis of the repor	t				
1	. W file	ith regarded, unless	d to the language, the source of the sourc	is report is base under this item	ed on the interna	ational application	in the language i	n which it wa
		 □ This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: □ international search (under Rules 12.3 and 23.1(b)) □ publication of the international application (under Rule 12.4) □ international preliminary examination (under Rules 55.2 and/or 55.3) 						
2	. Wi <i>ha</i> rep	th regard <i>ve been i</i>	to the elements* of furnished to the rece riginally filed" and an	the internation	al application, th		on <i>(replacement</i> cle 14 are referre	sheets which ed to in this
	De	scription,	Pages					
	1-6	6		as originally filed	d			
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	1-71		as originally filed	i				
		a seque	nce listing and/or an	y related table(s	s) - see Supplen	nental Box Relatin	g to Sequence Li	sting
3.		☐ the d☐ the c☐ the d☐ the s☐	endments have resultlescription, pages laims, Nos. rawings, sheets/figs equence listing <i>(specable(s)</i> related to secape	cify):				
4.	·	plementa ☐ the de ☐ the cl ☐ the de ☐ the de ☐ the se	ort has been establis made, since they ha Il Box (Rule 70.2(c)). escription, pages aims, Nos. rawings, sheets/figs equence listing (spec able(s) related to seq	eify):	dered to go beyo	nents annexed to and the disclosure	this report and lis as filed, as indica	sted below ated in the
			4 applies, som			s may be mark	ed "supersed	ad "

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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
 The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- obvious), or to be industrially applicable have not been examined in respect of: 					
	the entire international application,				
×	claims Nos. 1, 9-13, 17-29, 34-61, 70, 71				
	because:				
×	the said international application, or the said claims Nos. 1, 9-13, 17-29, 34-61, 70, 71 relate to the following subject matter which does not require an international preliminary examination (specify):				
	see separate sheet				
	the description, claims or drawings <i>(indicate particular elements below)</i> or said claims Nos. are so unclear that no meaningful opinion could be formed <i>(specify)</i> :				
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion				
	no international search report has been established for the said claims Nos.				
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:				
	the written form		has not been furnished		
			does not comply with the standard		
	the computer readable form		has not been furnished		
			does not comply with the standard		
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable for not comply with the technical requirements provided for in Annex C-bis of the Administrative Institute.			and/or one in a set t		
	See separate sheet for further	detail	s		

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-71

Inventive step (IS)

Yes: Claims

No: Claims

1-71

Industrial applicability (IA)

Yes: Claims

2-8,14-16,30-33,62-69

No: Claims

1, 9-13, 17-29, 34-61, 70, 71 (see separate sheet)

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VI Certain documents cited

1. Certain published documents (Rule 70.10)

and /or

2. Non-written disclosures (Rule 70.9)

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Section III:

Claims 1,9-13, 17-29, 34-61, 70, 71 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Section V:

Prior art

Reference is made to the following prior art documents:

D1 (US 6 245 785) relates to pharmaceutical compositions comprising triprolidine, and more particularly to tablets containing triprolidine hydrochloride and processes for producing and assaying such tablets (col. 1, Il. 6 to 10; examples)

D2 (US 3 146 169) relates to tablets containing medicaments and to the manufacture thereof (1, 12+13). The medicament in the medicated portion may be any desired medicament.

Examples are barbiturates such as phenobarbitone (5-ethyl-5-phenylbarbituric acid), ergotamine, dihydroergotamine, ephedrine (1 -phenyl-2-methylaminopropanol), isoephedrine (pseudoephedrine), triprolidine (1,2' pyridyl-3-pyrrolidone-l-p-tolylprop-l-ene), etc. (2, 36)

D3 (W003/032912) is directed to compositions used for treating Central Nervous System (CNS) disorders. In addition, the invention provides convenient methods of treatment of a CNS disorder. Furthermore, the invention provides methods of treating sleep disorders using compositions that remain active for a discrete period of time to reduce side effects. More specifically, the invention is directed to the compositions and use of derivatized, e. g., ester or carboxylic acid derivatized, antihistamine antagonists for the treatment of sleep disorders (2,3-13).

D4 (http://www.netdoctor.co. uk/medicines/i 00000021. html) contains the combination of 3 substances: Triprolidine hydrochloride, Pseudoephedrine Hydrochlorid and Guaifensin.

D5 (http://www.drugs.com/alpha/t9.html) contains the combination of 4 substances: Triprolidine, Pseudoephedrine, Codeine and Guaifensin.

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D6 (US 2003 0 180 352) relates to pharmaceutical delivery systems for pharmaceutical active ingredients, such as drugs, nutritionals, cosmeceuticals, and diagnostic agents. In particular, the present invention provides compositions and dosage forms including solid carriers for improved delivery of pharmaceutical active ingredients (1, §3; 3, §46).

Novelty

Present claims 1 to 71 are not novel over the prior art according to Article 33 (1) PCT.

The claims 14 to 16, 30 to 33 in their present form are not novel. What is claimed in these claims are compositions comprising specific active agents for a specific therapeutical use. As however compositions comprising active agents of the claims 14 to 16, 30 to 33 (triprolidine) are already known by the prior art, as well as their use in therapy (see D1) a composition comprising the active agents of claims 14 to 16, 30 to 33 cannot be patented for any other use of that kind.

The composition claims 14 to 16, 30 to 33 are already anticipated by the following documents as summarized above, the combination of triprolidine and other active substances is already known for the prior art, e.g. D1, D4, D5.

The medical treatment claims 1 to 71 are not novel over the following documents as summarized above:

D2 mentiones triprolidine in the group of barbiturates (col. 2, II. 33-40). Barbiturate is the name of a group of chemical substances, but also the name of drugs for sleeping. Therefore, D2 anticipates novelty of present claims 1 to 71(2, 36; examples). D3 includes the combination of triprolidin and other active substances (9, 27ff). D3 further explicitly states that the compounds of table 2 and 3 are used for treating sleep disorders (col. 45, II. 30ff).

Inventive step

Even if the applicant is able to establish novelty it cannot be seen that any particular aspect of the application as filed would involve an inventive step under Article 33 (3) PCT in the light of the relevant prior art.

Industrial applicability

For the assessment of the present claims 1,9-13, 17-29, 34-61, 70, 71 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a

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known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

Section IV:

The applicant is informed that no check has been made as to whether priority has been validly claimed. Therefore, document D6 (US 2003 0 180 352), which has been disregarded in writing the present opinion, could become relevant for the assessment of novelty once the present application enters the regional phase (Rule 64 (1) b PCT).

Section VIII:

The following claims are unclear according to Article 6 PCT:

Every claim (e.g. claims 1 to 5) having the term "aid to waking refreshed after sleeping" or equivalent formulations is unclear. It is only a paraphrase for a sleeping drug. Claims 14 to 16, 30 to 33 are unclear: they are directed partially to the mere presentation of information (instructions for which is, however, not patentable.

Claim 19 is unclear: it refers to cox II. Further "zanamir" should be "zanamivir", "valarian" should be "valerian".

Claim 20 is unclear: the terms "dcba" and "amc" are unclear. The term "without limitation" renders claim 26 unclear.

Claims 61 to 71 are unclear because they refer to the examples of the application.